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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,496	06/27/2007	Karthik Kaleedhass	KASS-006-US	3830
63908	7590	03/21/2011	EXAMINER	
MAIER & MAIER, PLLC 1000 DUKE STREET ALEXANDRIA, VA 22314			LEWIS, LISA C	
			ART UNIT	PAPER NUMBER
			2436	
			MAIL DATE	DELIVERY MODE
			03/21/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/581,496

Applicant(s)

KALEEDHASS ET AL.

Examiner

Lisa Lewis

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Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 February 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 2, 8 and 10-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 8, and 10-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-942)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/28/2011 has been entered, a duplicate of which was filed on 02/24/2011. Applicant has amended claim 1 and has cancelled claims 3-6 and 9. Claims 1, 2, 8, and 10-24 are presented for examination on the merits.

Response to Arguments

Applicant's arguments have been carefully considered, but are not deemed persuasive of error in the rejection.

Applicant argues that the prior art does not teach or suggest dynamically encrypting the biometric features, the method of encryption being selected based on factors including computing power or the registration computer and the server, and network bandwidth. The examiner respectfully disagrees. Uchida teaches that the ciphered biometric data is obtained and compared to deciphered biometrics in the database for verification - see column 5 lines 36-52, for example. Therefore, it is clear that it is the intention of Uchida to encrypt both the stored features (since they are deciphered) and the inputted features, and the stored features were encrypted prior to the input of the verification features. Further, Lindo teaches that a method of encryption may be selected based on the available bandwidth, as discussed in the previous office action. This is beneficial because it allows the system to remain functional without having to perform major system upgrades to accommodate a high-bandwidth consuming algorithm.

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Although the references do not expressly teach that the encryption method is also selected based on computing power, it is clear that a method would not be selected where the devices do not have enough computing power to process the encryption in a timely manner, or else the method would be inefficient and non-functional without upgrades. Therefore, the skilled artisan would know that when selecting the encrypting method based on the bandwidth, as taught by Lindo, the user would certainly take into consideration if the computing devices could not handle certain types of encryption, for example.

Applicant has not specifically argued an error in the rejection set forth in the previous office action regarding the use of Uchida, Bianco et al. and McCabe et al., as applied to limitations such as backup server, spatially separated, different country, etc. The applicant has only argued how the references do not teach selecting the method of encryption. Therefore, this rejection is maintained, as they now apply to claim 1.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claims 1, 2, 8, and 10-14 are rejected under 35 U.S.C. 103(a), as being unpatentable over Uchida (US 7,246,243) in view of Lindo et al. (US 2002/0099858) and Bianco et al. (US 6,256,737), and further in view of McCabe (US 2002/0095317).**

3. Regarding claims 1 and 10, Uchida teaches a method of electronically identifying and verifying an individual utilizing at least one biometric feature of the individual including the steps of:

4. Enrolling an individual into a database including:

- a. Inputting required particulars of the individual into the database and ascertaining the existence or otherwise of the particulars of the individual in the database (A user ID and fingerprint are sent to the processor to see if the individual is registered in the system or not) - see figure 13, column 2 lines 39-57, column 3 line 64 - column 4 line 18, column 4 line 56 - column 5 line 3, and column 5 lines 17-24, for example.
 - b. Capturing biometric features of the individual wherein key features of the biometric raw data are extracted (When a user's fingerprint is captured, features, such as ridge patterns, are extracted) - see figure 13, column 2 lines 39-57, column 3 line 64 - column 4 line 18, column 4 line 56 - column 5 line 3, and column 5 lines 17-24, for example.
 - c. Encrypting in a dynamic manner the biometric features (The ID and fingerprint come from the encryption unit, and therefore are intended to be encrypted, or at this would have at least been obvious to the skilled artisan for the purpose of basic security) -see figure 13, column 2 lines 39-57, column 3 line 64 - column 4 line 18, column 4 line 56 - column 5 line 3, and column 5 lines 17-24, for example.
 - d. Transmitting the encrypted data of the biometric features to the server and storing the encrypted data in relation to the particulars of the individual obtained above (The encrypted data is transmitted to an authentication server) - see figure 13, column 2 lines 39-57, and column 3 line 64 - column 4 line 18, for example.
5. Verifying an individual in the database including:
- e. Activating an access apparatus (capable of recording data) with a means to capture at least one biometric feature of an individual in a secure manner using dynamic encryption (A user's fingerprint is detected by a fingerprint sensor and is encrypted) - see figure 13 and column 3 line 64 - column 4 line 18, for example.

- f. Capturing the biometric feature of an individual wherein key feature of biometric raw data are extracted (A user's fingerprint is captured, and features, such as ridge patterns, of the fingerprint are extracted) - see figure 13 and column 3 line 64 - column 4 line 18, for example.
 - g. Encrypting in a dynamic manner the biometric features (The features are encrypted using a secret key generated by a cipher key generator) - see figure 13 and column 3 line 64 - column 4 line 18, for example.
 - h. Transmitting the encrypted data of the biometric feature to at least one server in the access apparatus or to at least one server spatially separated from the access apparatus, wherein in a first attempt, the access apparatus will attempt to send the encrypted data to the spatially separated server (The encrypted data is transmitted to an authentication server (in the first attempt), which is spatially separated from the access apparatus) - see figure 13, column 2 lines 39-57, and column 3 line 64 - column 4 line 18, for example.
 - i. Verifying the biometric features captured with a pre-stored biometric feature in the server (It is determined whether the received biometrics data has corresponding biometrics data in the database for authentication) - see figure 13, column 5 lines 36-52, column 2 lines 39-57, and column 3 line 64 - column 4 line 18, for example.
 - i. Wherein upon positive identification and verification of the individual access is given to an auxiliary means such as but not limited to access to secured doors, database, computer network, or servers (Access is given to e-commerce over a communications network if the biometric matches a biometric associated with an ID in the database) - see column 1 and column 5 lines 4-16, for example.
6. As discussed above, Uchida teaches that registration is performed into a database by a user supplying their fingerprint and ID to the machine, which is sent to the authentication server for registration, and the data is stored in the server - see column 4 line 56 - column 5 line 3 and column 5

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lines 17-24, for example. Uchida does not expressly teach that the data features are encrypted or that the step is performed before a user inputs their biometric feature for authorization. However, for basic security purposes, and to maintain uniformity throughout the system, the skilled artisan would recognize that it is the intention of Uchida that the features be extracted and encrypted.

7. Uchida does not teach that the encryption is based on factors including the computing power of the computers and network bandwidth.

8. Lindo et al. teach a method wherein encryption operations may be selected by the user and may be defaulted depending on the available bandwidth - see [0082], for example. Although the references do not expressly teach that the encryption method is also selected based on computing power, it is clear that a method would not be selected where the devices do not have enough computing power to process the encryption in a timely manner, or else the method would be inefficient and non-functional without upgrades. Therefore, the skilled artisan would know that when selecting the encrypting method based on the bandwidth, as taught by Lindo, the user would certainly take into consideration if the computing devices could not handle certain types of encryption, for example.

9. Neither Uchida nor Lindo et al. teach a sending the data to a different server in case of failure.

10. Bianco et al. beneficially teach that an alternate biometric server is used as a backup server to biometric data and stores the exact same data so that a server is always available to authenticate users - see column 10 lines 28-35, for example. Please note that the designated server must be either spatially separated or part of the access apparatus.

11. Uchida, Lindo et al., and Bianco et al. do not teach that the sever is located in a separate country.

12. McCabe beneficially teaches that two backup servers should be used and that one can be located on the opposite end of the country and the other can be located on a different continent - see [0109], for example.

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13. It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the teachings of Uchida by allowing the encryption method to be determined based on computing power and available bandwidth, for the purpose of maintaining a functional system without having to perform major system upgrades, based upon the beneficial teachings provided by Lindo et al. It also would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the teachings of Uchida and Lindo et al. by using a backup server to be available in the event of failure, for the purpose of making authentication always available to users, based upon the beneficial teachings provided by Bianco et al. It would have also been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the teachings of Uchida, Lindo et al., and Bianco et al. by locating the server in another country, for the purpose of increased security, based upon the beneficial teachings provided by McCabe. These modifications would result in increased power conservation, efficiency, backup protection, and security, all of which are obvious benefits to the skilled artisan. Additionally, the cited references are in the field of cryptography, as is the current application, and thus, are in analogous arts.

14. Regarding claim 2, Uchida teaches that the server is spatially separated from access apparatus - see figure 13 and column 2 lines 39-56, for example.

15. Regarding claim 11, Uchida teaches comparing the biometric features with known biometric features from a database and by a PIN (ID) - see - see figure 13, column 5 lines 36-52, column 2 lines 39-57, column 5 lines 4-16, and column 3 line 64 - column 4 line 18, for example.

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16. Regarding claims 13 and 14, Uchida teaches that the features are stored at the server itself - see figure 13 and column 2 lines 39-56, for example.

17. Regarding claim 8, Uchida teaches that the particulars are an ID (alpha numeral) - see column 4 line 56 - column 5 line 3 and column 5 lines 17-24, for example.

18. Regarding claim 12, using or eliminating the PIN or user ID is merely a matter of design choice based on security preferences, and is well within the purview of the skilled artisan to discern.

19. **Claims 15-20, 23, and 24 are rejected under 35 U.S.C. 103(a), as being unpatentable over Uchida (US 7,246,243) in view of Lindo et al. (US 2002/0099858)**

20. Regarding claim 15, Uchida teaches an electronic means of identifying and verifying an individual presenting for such identification and verification including:

j. A means to capture at least one type of biometric features of the individual (A user's fingerprint is detected by a fingerprint sensor and features are extracted) - see figure 13 and column 3 line 64 - column 4 line 18, for example.

k. A software means to encrypt in a dynamic manner the biometric features (The features are encrypted using a secret key generated by a cipher key generator) - see figure 13 and column 3 line 64 - column 4 line 18, for example.

l. A transmission means wherein the encrypted biometric features of the individual are transmitted to a server (The encrypted data is transmitted to an authentication server) - see figure 13, column 2 lines 39-57, and column 3 line 64 - column 4 line 18, for example.

m. A software means to capture the encrypted biometric features presented for identification and verification against stored encrypted biometric features of a purported individual (It is

determined whether the received biometrics data has corresponding biometrics data in the database for authentication and identification (A user's identifier ID-A is compared)) - see figure 13, column 5 lines 36-52, column 2 lines 39-57, column 5 lines 4-16, and column 3 line 64 - column 4 line 18, for example.

n. A means to give access to other databases or software if a positive identification and verification is made and to deny such access if a negative identification and verification is made (Access is given to e-commerce over a communications network if the biometric matches a biometric associated with an ID in the database. Denial or authorization is given based on the match) - see column 1, figure 11, and column 5 lines 4-16, for example. Please note that this would inherently require access to some type of software and/or database.

21. Uchida does not teach that the encryption is based on factors including the computing power of the computers and network bandwidth.

22. Lindo et al. teach a method wherein encryption operations may be selected by the user and may be defaulted depending on the available bandwidth - see [0082], for example. Although the references do not expressly teach that the encryption method is also selected based on computing power, it is clear that a method would not be selected where the devices do not have enough computing power to process the encryption in a timely manner, or else the method would be inefficient and non-functional without upgrades. Therefore, the skilled artisan would know that when selecting the encrypting method based on the bandwidth, as taught by Lindo, the user would certainly take into consideration if the computing devices could not handle certain types of encryption, for example.

23. It would have been obvious to one of ordinary skill in the art at to create the invention as claimed for the following reasons. It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the teachings of Uchida by allowing the encryption method to be determined based on computing power and available bandwidth, for the purpose of maintaining a

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functional system without having to perform major system upgrades, based upon the beneficial teachings provided by Lindo et al. These modifications would result in increased power conservation and efficiency, both of which are obvious benefits to the skilled artisan. Additionally, the cited references are in the field of cryptography, as is the current application, and thus, are in analogous arts.

24. Regarding claim 19, Uchida teaches an electronic means of identifying and verifying an individual presenting for such identification and verification including:

- o. Access apparatus with a means to capture at least one biometric raw data of an individual in a secure manner using dynamic encryption (A user's fingerprint is detected by a fingerprint sensor and is encrypted) - see figure 13 and column 3 line 64 - column 4 line 18, for example.
- p. Circuitry to extract any features of the biometric raw data from the means to capture the biometric raw data (A user's fingerprint is captured, and features, such as ridge patterns, of the fingerprint are extracted) - see figure 13 and column 3 line 64 - column 4 line 18, for example.
- q. Circuitry to encrypt the key features of the biometric raw data in a dynamic manner (The features are encrypted using a secret key generated by a cipher key generator) - see figure 13 and column 3 line 64 - column 4 line 18, for example.
- r. Transmission means to transmit encrypted data of the biometric features to at least one server (The encrypted data is transmitted to an authentication server) - see figure 13, column 2 lines 39-57, and column 3 line 64 - column 4 line 18, for example.
- s. At least one server to receive and store the encrypted data of the biometric feature of the individual (The authentication server stores the received data) - see figure 13, column 2 lines 39-57, and column 3 line 64 - column 4 line 18, for example.
- t. Circuitry to verify and/or identify the encrypted data against pre-stored encrypted biometric data in the server (It is determined whether the received biometrics data has

corresponding biometrics data in the database for authentication and identification (A user's identifier ID-A is compared)) - see figure 13, column 5 lines 36-52, column 2 lines 39-57, column 5 lines 4-16, and column 3 line 64 - column 4 line 18, for example.

25. Uchida does not teach that the encryption is based on factors including the computing power of the computers and network bandwidth.

26. Lindo et al. teach a method wherein encryption operations may be selected by the user and may be defaulted depending on the available bandwidth - see [0082], for example. Although the references do not expressly teach that the encryption method is also selected based on computing power, it is clear that a method would not be selected where the devices do not have enough computing power to process the encryption in a timely manner, or else the method would be inefficient and non-functional without upgrades. Therefore, the skilled artisan would know that when selecting the encrypting method based on the bandwidth, as taught by Lindo, the user would certainly take into consideration if the computing devices could not handle certain types of encryption, for example.

27. It would have been obvious to one of ordinary skill in the art at to create the invention as claimed for the following reasons. It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the teachings of Uchida by allowing the encryption method to be determined based on computing power and available bandwidth, for the purpose of maintaining a functional system without having to perform major system upgrades, based upon the beneficial teachings provided by Lindo et al. These modifications would result in increased power conservation and efficiency, both of which are obvious benefits to the skilled artisan. Additionally, the cited references are in the field of cryptography, as is the current application, and thus, are in analogous arts.

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28. Regarding claims 16, and 24, Uchida teaches comparing the biometric features with known biometric features from a database and by a PIN (ID) - see - see figure 13, column 5 lines 36-52, column 2 lines 39-57, column 5 lines 4-16, and column 3 line 64 - column 4 line 18, for example.

29. Regarding claims 17 and 18, Uchida teaches that the biometric is a fingerprint - see figure 13 and column 3 line 64 - column 4 line 18, for example.

30. Regarding claim 20, Uchida teaches that the server is spatially separated from access apparatus - see figure 13 and column 2 lines 39-56, for example.

31. Regarding claim 23, Uchida teaches that the features are stored at the server itself - see figure 13 and column 2 lines 39-56, for example.

32. Claim 21 is rejected under 35 U.S.C. 35 U.S.C. 103(a) as being unpatentable over Uchida in view of Lindo et al., and further in view of Bianco et al. (US 6,256,737).

33. The teachings of Uchida and Lindo et al. are relied upon for the reasons set forth above.

34. Regarding claim 21, Uchida and Lindo et al. do not teach a backup server that the data is rerouted to in a case of failure.

35. Bianco et al. beneficially teach that an alternate biometric server is used as a backup server to biometric data and stores the exact same data so that a server is always available to authenticate users - see column 10 lines 28-35, for example.

36. It would have been obvious to one of ordinary skill in the art at to create the invention as claimed for the following reasons. It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the teachings of Uchida by allowing a backup server to be

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available in the event of failure, for the purpose of making authentication always available to users, based upon the beneficial teachings provided by Bianco et al. and Lindo et al. These modifications would result in increased security and efficiency, both of which are obvious benefits to the skilled artisan.

Additionally, the cited references are in the field of biometric authentication, as is the current application, and thus, are in analogous arts.

37. Claim 22 is rejected under 35 U.S.C. 35 U.S.C. 103(a) as being unpatentable over Uchida in view of Lindo et al., and further in view of Robinson et al. (US 2008/0271116).

38. The teachings of Uchida and Lindo et al. are relied upon for the reasons set forth above.

39. Regarding claim 22, Uchida and Lindo et al. do not teach that a token is used in addition to the biometric sample.

40. Robinson et al. beneficially teach that in addition to a biometric sample, a token with identification information can be presented for identification verification - see [0049], for example.

41. It would have been obvious to one of ordinary skill in the art at to create the invention as claimed for the following reasons. It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the teachings of Uchida and Lindo et al. by allowing a token to be used in addition to the biometrics, for the purpose of increased security and ease of use, based upon the beneficial teachings provided by Robinson et al. Additionally, the cited references are in the field of biometrics, as is the current application, and thus, are in analogous arts.

Conclusion

A reference to specific paragraphs, columns, pages, or figures in a cited prior art reference is not limited to preferred embodiments or any specific examples. It is well settled that a prior art reference, in its entirety, must be considered for all that it expressly teaches and fairly suggests to one having ordinary skill in the art. Stated differently, a prior art disclosure reading on a limitation of Applicant's claim cannot be ignored on the ground that other embodiments disclosed were instead cited. Therefore, the Examiner's citation to a specific portion of a single prior art reference is not intended to exclusively dictate, but

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rather, to demonstrate an exemplary disclosure commensurate with the specific limitations being addressed. In re Heck, 699 F.2d 1331, 1332-33, 216 USPQ 1038, 1039 (Fed. Cir. 1983) (quoting In re Lemelson, 397 F.2d 1006, 1009, 158 USPQ 275, 277 (CCPA 1968)). In re: Upsher-Smith Labs. v. PamLab, LLC, 412 F.3d 1319, 1323, 75 USPQ2d 1213, 1215 (Fed. Cir. 2005); In re Fritch, 972 F.2d 1260, 1264, 23 USPQ2d 1780, 1782 (Fed. Cir. 1992); Merck & Co. v. Biocraft Labs., Inc., 874 F.2d 804, 807, 10 USPQ2d 1843, 1846 (Fed. Cir. 1989); In re Fracalossi, 681 F.2d 792, 794 n.1, 215 USPQ 569, 570 n.1 (CCPA 1982); In re Lambertii, 545 F.2d 747, 750, 192 USPQ 278, 280 (CCPA 1976); In re Bozek, 416 F.2d 1385, 1390, 163 USPQ 545, 549 (CCPA 1969).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa Lewis whose telephone number is (571) 270-7724. The examiner can normally be reached on Monday - Friday, 6:30 a.m. - 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on (571) 272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/s. L./

Examiner, Art Unit 2436

/Nasser Moazzami/
Supervisory Patent Examiner, Art Unit 2436